May/June 1992 Volume 17, Number 3

A summary of recent news stories from the University of California, San Francisco

UCSF

News for You

Allen J. Balderson

Mike Grisanti (far right) and Louis Long examine Gloria Monticelli.

Taking Dental Care Into People's Homes

Second-year resident Mike Grisanti loads up the trunk of his '83 Toyota Celica with 90 pounds of dental equipment, including drills, various suction pumps, air and water syringes, and a portable x-ray machine. He and two other students are going to make a few visits. One is to 66-year-old Mission resident Gloria Monticelli, a multiple sclerosis patient in need of dental work. But, she can't go to a clinic because she is too frail to leave her home.

Thanks to our School of Dentistry, Gloria Monticelli and many like her are having their dental needs met — in their own homes. It is part of the Center for the Care of Special Patients and the Advanced Educational Program in General Dentistry headed by Harvey Brody. This UCSF program, based at the Buchanan Dental Clinic, is the largest of its kind in the country.

From simple fillings to extractions, dentures to root canals, the home care team performs them all. "Many people are homebound," says Brody. "They may be frail and elderly or young and disabled, or suffering from AIDS, but they all share the same problem: they are incapable of venturing out of their homes for care."

For further information on the Center for the Care of Special Patients, call 476-5710.

High Tech Images of the Wrist

The wrist is one of the most complicated joints in the body and one of the most poorly understood, says orthopaedic surgeon David Nelson. Because the wrist has eight bones that move simultaneously, there is no animal model that can be used to simulate wrist movement, and previous research has been limited.

Now, Nelson and his group of researchers are gaining new insight into wrist pain and wrist disorders by using sophisticated computer technology — state-of-the-art 3-D images — to track the most subtle movement of the bones and inner structures of this complicated joint.

In one study, tiny steel balls are implanted by hypodermic needle in the wrist bones of cadavers. These balls serve as markers that indicate even the most subtle change in bone positions that occur with movement. Data from a series of X-rays is then converted to computer generated 3-D images that researchers can use for evaluating how different surgical techniques and other therapies affect normal movement.

Knowledge gained from these studies will help to develop new treatments for wrist injuries that not only relieve pain and discomfort, but will provide patients with enough range of motion to perform routine daily activities, from combing one's hair to turning a faucet.

Paul Fusco

Fossil detective Jerold Lowenstein

Using Antibodies to Probe the Past

In the past few decades "molecular paleontology" has joined the ranks of fossil recording and other techniques that seek to reconstruct evolution. Molecular paleontologists amplify tiny amounts of DNA to make direct genetic comparisons between fossil and living species.

But blood and certain other biological materials contain no DNA, says UCSF's Jerold M. Lowenstein, a pioneer in the use of molecular methods to study how life evolved on Earth. He adds that some proteins may outlast DNA in many fossils — sometimes persisting millions of years.

Lowenstein leads a team of scientists who now use the immunological technique — dubbed radioimmunoassay (RIA) — to study traces of fossil proteins undetectable by standard techniques. Developed by the UCSF team, RIA mixes antibodies with fossil proteins. A radioactive antibody then is used to detect the degree of reaction.

In one study, the UCSF team performed RIA on traces of blood found on 3,000-year-old spear points from British Columbia, which are providing new insights into the culture and tool-using skills of these ancient humans.

Their work also is helping to sort out how extinct species fit into evolution.

In Brief

Community Groups Meet

Community leaders and neighborhood residents from all over the city have begun working with UCSF to prepare a new Long Range Development Plan (LRDP) to guide UCSF's growth over the next 15 years.

A Community Advisory Group, made up of 37 people of varying ethnic, business, labor and geographic interests, now meet regularly to discuss the LRDP process. The first series of neighborhood workshops open to everyone in the community were held in March in the Bayview-Hunters Point, Mission, Laurel Heights/Western Addition and Parnassus areas.

Those attending the meetings heard about the severe space crunch that affects UCSF's patient care, research and teaching. UCSF wants maximum public involvement in the planning process, starting with the first step of outlining a general growth philosophy. The community participation process, which began in January, will continue until a new LRDP is presented to the UC Board of Regents in the fall of 1994.

For information on future community workshops, call UCSF Community Relations at 476-3206.

Proposition 153 — A Boost for Higher Education, the Economy

California voters will be asked on June 2 to consider a bond measure for higher education. The measure, Proposition 153, would provide general obligation bonds totalling $900 million for construction projects planned by California Community Colleges, California State University and the University of California.

The measure represents nearly 60% of UC's building projects slated for the next two years. In addition to the benefits the measure holds for higher education, it is expected to give the construction industry a boost and help spur the state's economic recovery.

In the first phase, the bonds would bring nearly $35 million to state-assisted schools in San Francisco. UCSF would receive $23 million, including $15 million to create urgently needed classrooms and laboratories in space left vacant by the move of the campus library into a new building. The balance of the funds would provide necessary emergency and electrical improvements.

Breast Cancer Research Benefit

The SF Opera is presenting a "Gift of Hope" performance of Rossini's Barber of Seville on Friday, June 19, at the SF War Memorial Opera House to benefit the new Breast Cancer Research Fund at UCSF. The UCSF Cancer Research Institute hopes to raise some $1 million for the fund by this July to endow and sustain new Bay Area programs to help control and prevent breast cancer, the most common of all life-threatening malignancies in America. Funds will allow for specialized breast cancer clinics, new laboratory research and newly recruited breast cancer experts.

For each donation of $250 or more you also will be invited to a champagne reception immediately following the performance. Other benefit tickets include: dress circle $125, balcony circle $75, and balcony $60. For ticket information call 864-3330. For reception information call 476-8784.

More News for You

on the back page

What's happening

May/June 1992
A bimonthly calend
events at UC San F

Special Events

Thurs. & Fri., Apr. 30 & May 1
Second Annual UCSF Student Art Show. Millberry Union Conference Center, 500 Parnassus. 10 a.m.-6 p.m. Wind Ensemble at UCSF to perform at 5 p.m. on May 1.

Sun., May 31
UCSF Orchestra Spring Concert. Program features Gershwin's "Rhapsody in Blue." $4 seniors & students, $7 general. Millberry Union Gym, 500 Parnasus. 4 p.m.

Celebrating the Week of Cinco de Mayo

UCSF celebrates Cinco de Mayo and the 500th anniversary of the Americas.

Thurs., Apr. 30
Cherrie Moraga: Words for "The Last Generation." Giving voice to the Chicana experience. Toland Hall, 533 Parnassus. Noon-1:30 p.m.

Mon., Tues., Thurs. & Fri., May 4, 5, 7 & 8
Quincentennial Sale. Raffle tickets for Cabo San Lucas trip, plus food & t-shirts. Medical Sciences lobby, 513 Parnassus. Noon.

Mon., May 4
For the Kids — Piñata & Storyteller. Marilyn Reed Lucia Child Care Study Center, 610 Parnassus. 10:30-11:30 a.m.

Tues., May 5
Cinco de Mayo Lecture. Ana Chavez, KPIX-Channel 5 anchorperson. Toland Hall, 533 Parnassus. Noon.

"Zoot Suit." Movie about the struggle of Mexicans in Los Angeles during WWII. Cole Hall, 513 Medical Sciences. 5-7 p.m.

Wed., May 6
For the Kids — Mariachi Band, Piñata & Storyteller. YWCA Child Development Center, Mission Center Bldg., 1855 Folsom. 11 a.m.-12:45 p.m.

New Hispanic Leadership in Business. Manuel A. Rosales, president, California Hispanic Chamber of Commerce. Rm. 300, Health Sciences West, enter through 513 Parnassus. Noon.

Quincentennial Marketplace. Opened by Rodolfo Figaroa, Council General of Mexico, followed by Ballet Folklorico, mariachi music & plenty of food & fun. Saunders Court, enter through 513 Parnassus. Noon-2 p.m.

Thurs., May 7
Health Issues Relating to Mexico & California. Jose Ignacio Santos, pediatrician, Children's Hospital, Mexico City. Toland Hall, 533 Parnassus. Noon.

Flamenco Dancers. Plaza Grill, 500 Parnassus. 1-2 p.m.

Fri., May 8
Raffle Drawing & Peruvian Music. Winner chosen for Cabo San Lucas trip. Plaza Grill, 500 Parnassus. Noon.

Cinco de Mayo Dance. Enjoy live music & raise funds for relief in Bolivia. $5-$10. Co-sponsored by Cordilliera Project & ASUCSF. Millberry Gym, 500 Parnassus. 8 p.m.-12 a.m.

Campus Tours

All tours are free and take place at 1 p.m. on Tuesdays, May 5, 12, 19, 26 and June 2, 9, 16, 23, 30. Those interested may meet in the lobby of Medical Sciences, 513 Parnassus. For further tour information call 476-4394.

Asian Pacific Awareness Month

UCSF celebrates Asian Pacific Awareness Month with the following events.

Wed., May 27
San Jose Taiko. Enjoy these innovative performers who combine Japanese, African, Latin & jazz rhythms in their drumming. Millberry Union Gym, 500 Parnassus. Noon.

Thurs., May 28
Survivors: 40 Years after Hiroshima. Hear Hiroshima & Nagasaki survivors speak for themselves in this film. Followed by a discussion with film's producer, Frances Politeo. Toland Hall, 533 Parnassus. Noon-1 p.m.

Institute of Healing Arts & Sciences

All talks are free and held on Fridays at noon in Rm. 721, Nursing Bldg., enter through 521 Parnassus. Workshops held in Rm. 517, Nursing Bldg. Call Marie Lehrer at 584-4416 for June schedule & to register for workshops.

May 1
Family Harmony.

Mon., May 4
Family Harmony Institute Workshop: Dysfunctional Families. $20. 6-9 p.m.

May 8
Natural Medicine from a Traditional Maya Indian Perspective.

May 15
The Primacy of Intimacy with Self.

May 29
Loyalty to Your Body.

Sat., May 30
Workshop: Clearing Body, Mind & Spirit in All Times & Places. $75. 9 a.m.-4 p.m.

Outdoors Unlimited

Outdoors Unlimited is a cooperative resource center for outdoor recreation and adventure, serving both UCSF and the general public. Call 476-2078 for a quarterly listing of events.

Recreation & Fitness

Have fun & get fit in 1992 at Millberry Fitness Center. A wide variety of classes & workshops including step aerobics, guitar, belly dance, children's tennis, sports nutrition & much, much more. Summer registration for the public begins **Tues., June 16.** Millberry Union, 500 Parnassus. Call 476-1115.

Cole Hall Cinema

Films shown on Thursdays & Fridays in Cole Hall, 513 Parnassus. Children under 14, $2; UCSF students & Millberry members, $2.50; other students & seniors, $3; general $3.50. Movies may change. Call 476-2542.

Apr. 30 at 5:45 & 8:30 p.m.
May 1 at 6:30 & 9:15 p.m.
Bugsy.

May 7 at 5:45 & 8 p.m.
May 8 at 6:30 & 8:45 p.m.
The Hand That Rocks the Cradle.

May 14 at 5:30 & 9 p.m. (Early start time.)
May 15 at 6 & 9:30 p.m.
JFK.

May 28 at 5:45 & 8:30 p.m.
May 29 at 6:30 & 9:15 p.m.
Fried Green Tomatoes.

(Summer hours begin.)
June 18 at 5:30 & 8:15 p.m.
June 19 at 6 & 8:45 p.m.
Hook.

June 25 at 5:30 & 7:30 p.m.
June 26 at 6 & 8 p.m.
Wayne's World.

AIDS Programs

Sponsored by UCSF AIDS Health Project. For more information call 476-6430.

Living with HIV Public Forums. Call for schedule.

Individual Risk Assessments & Referrals. By appointment. Free.

Positives Being Positive. Anonymous support groups in the community for people who have tested HIV positive but have not developed symptoms of AIDS or ARC.

Other Support Groups. Drop-in & eight-week facilitated groups for men & women with AIDS, ARC or HIV infection, in a risk group or otherwise affected.

Volunteer Orientation

Program to acquaint new & prospective volunteers with opportunities available in the Medical Center at UCSF. May 5 & 19 orientations held in Langley Porter Psychiatric Institute Auditorium, 401 Parnassus. Orientations held May 30 through June 13 are for students only & take place from 10 a.m.-4 p.m. in Rm. 214, Medical Sciences Building, 513 Parnassus. Call 476-1196.

Tues., May 5: Adults. 9-11 a.m.
Tues., May 19: Adults. 5:30-7:30 p.m.
Sat., May 30: Students, ages 16-18.
Sat., June 6: College students.
Sat., June 13: Students, ages 14-15.

Community Health Talks

A series of free lecture/discussions sponsored by Public Service Outreach Programs. Held at UCSF-Laurel Heights (LH), 3333 California St., or the Parnassus campus (P) in Toland Hall, 533 Parnassus. 7-8:30 p.m. Free parking available. Call 476-8429 for information.

Thurs., May 7
The Biology of Human Aging. (P)

Thurs., May 21
Prostate Cancer: Risks & Treatment. (LH)

Thurs., June 4
Breast Cancer. (P)

Thurs., June 18
Touch & Its Effect on Children. (LH)

Art Exhibits

"French Countryside"

Oils & Sketches by Richard Seger. On display at the Faculty/Alumni House, 745 Parnassus. Through May 29. 9 a.m.-5 p.m. Call 476-4723.

Hospitals Auxiliary Art Exhibit. On display in the lobby of Moffitt/Long Hospitals, 505 Parnassus, during May & June will be wildlife pastels, calligraphy, paper sculpture, mini-prints & framed oils. A portion of all proceeds benefits patients at the Medical Center at UCSF. To purchase or reserve work, visit the Auxiliary Office, Rm. 182, Moffitt Hospital, 505 Parnassus, 9 a.m.-4 p.m., or call 476-4906.

Senior Health Education Program

Free lectures by UCSF staff geared to senior centers. Call 476-4394 for a listing of lectures & more information.

Breast Cancer Screening

Low-cost mammograms to screen for breast cancer are available from a mobile van that travels to convenient Bay Area locations. The procedure takes approximately 20 minutes and costs $60. Your physician's approval is required, plus his/her full name, address & telephone number to assure results are mailed promptly. Appointments must be made at least one month to six weeks in advance. Find out when the van will be in your neighborhood by calling 476-2193 weekdays, 9 a.m. to 3 p.m. A $50 mammogram also is available at Mount Zion's Radiology Department. Call 885-7710.

Brown Bag Lectures

Free lectures held at noon weekly on Wednesdays at the Parnassus campus (P), Rm. 300, Health Sciences West, enter through 513 Parnassus; monthly on Thursdays in Rm. 125, UCSF-Mission Center Bldg. (MCB), 1855 Folsom; & monthly on Tuesdays in Herbst Hall, Mount Zion Medical Center of UCSF (MZ), 1600 Divisadero. Call 476-4394.

May 6
(See Cinco de Mayo celebration.)

May 13
Nutrition in Health. (P)

May 14
Sports Medicine. (MCB)

May 19
Prostate Disease & Surgery: What You Should Know. (MZ)

May 20
San Francisco Chinatown. Take a walking tour without leaving your seat. (P)

May 27
Healthy International Travel. (P)

June 3
Allergies & Asthmas in 1992. (P)

June 10
Psyching Out. How therapists can help. (P)

June 16
Body Image vs. Self Image: The Role of Cosmetic Surgery. (MZ)

June 17
Sleep Disorders of Shift Workers. (P)

June 18
Migraine Headaches. (MCB)

June 24
Getting Under Your Skin: Good News, Bad News & Science Fiction. Skin as a route for drug delivery & the collection of diagnostic information. (P)

Look Good, Feel Better

This program provides expert advice on makeup, wigs & the use of turbans to people who have undergone chemotherapy or radiation and have lost or are losing their hair. Held the first Monday of each month in the 11th floor Solarium, Long Hospital, 505 Parnassus. Co-sponsored by the American Cancer Society. Call 476-1383.

Cancer Hotline

The UCSF Cancer Referral Service enables cancer patients to place just one telephone call and learn the names of UCSF doctors specializing in the kind of treatment they need. Call 1-800-888-8664.

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Women's Programs

Unless otherwise noted, events are sponsored by UCSF Women's Resource Center. For more information call 476-0400. To pre-register for workshops call 476-5836.

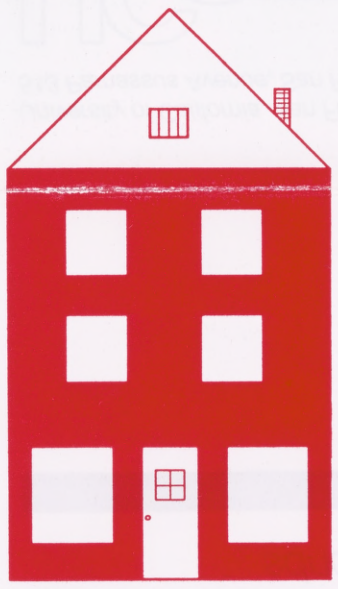
Tues., May 12
Why a Women's Medical Speciality? Reasons for a speciality devoted to the physical & emotional care of women. Rm. 301, Health Sciences West, enter through 513 Parnassus. Noon-1 p.m.

Sat., May 16 & 23
Self-Defense for Children & Adolescents. $20. Ages 7-10, 10 a.m.-noon. Ages 11-14, 1:30-3:30 p.m. Marilyn Reed Lucia Child Care Study Center, 610 Parnassus. Sponsored by UCSF Rape Prevention Education Program. Call 476-5222 to pre-register.

Tues., May 26
When a Wife Says No, Is It Rape? Learn how married women are winning the legal right to say no or yes. Toland Hall, 533 Parnassus. Noon-1 p.m.

Women in Management Series: Taking Control of Your Finances. Four-week series on Tuesdays. Noon-1 p.m. Rm. 664, Medical Sciences, 513 Parnassus. Covers how to find money to save, socially responsible investing, managing debt & what you can do to earn more money.

Thurs., May 28
(See Asian Pacific Awareness Month.)



Sat., May 30
Workshop: Remodeling Your House. Plan projects, develop a budget & learn to deal with regulations & permits. $35-$55. Rm. 517, Nursing Bldg., enter through 521 Parnassus. 10 a.m.-4 p.m.

Sat., June 13
Self-Defense for Women. Sponsored by the UCSF Rape Prevention Education Program. $35/$65. 9 a.m.-4 p.m. Studio 2, Millberry Fitness Center, 500 Parnassus.

Great Expectations Programs for Parents

The UCSF Birth Center offers the following lectures & discussions on Wednesdays for new & prospective parents. $5 per individual or couple. Rm. 326, Ambulatory Care Center, 400 Parnassus. 7-9 p.m. Video presentations are free and end at 8:30 p.m. Call 476-MOMS for registration & information. Call for details about San Francisco Mothers of Twins Club.

May 13
Infant & Child Emergency Care.

June 17
Building Relationships for Support During Labor. Video presentation of "Special Delivery."

UCSF

University of California, San Francisco
News and Public Information Services
513 Parnassus Avenue
San Francisco, CA 94143-0462

What just seemed like poor posture was scoliosis, a condition that turns a normal spine into a corkscrew.

Stand up straight.

Tuck in your belly. That's what 66-year-old Ione Reinertsen's three, ramrod-straight, schoolteacher aunts told her when she was a teenager.

She tried. But she couldn't.

Unbeknownst to Ione or her aunts, she had scoliosis, a condition in which the spine curves sideways and rotates. In Ione's case, her lower spine curved outward toward her right side, which meant that on her left side her unsupported ribs pushed down toward her pelvis.

As a result, Ione leaned to the left and favored her left hip for everything from carrying books to her four babies. But what seemed only a case of poor posture worsened as she grew older. She would often put her hand between her ribs and hip when she sat. And, to keep herself fairly upright, she placed her elbow between her ribs and hip when she walked. Not surprisingly, the condition also gave her lower back pain. When she finally sought medical advice in the mid-1970s, she was told that she was too old to undergo the major surgery needed to straighten her spine.

By then Ione had also developed a noticeable case of kyphosis, known in lay parlance as hunchback. It's unclear whether the kyphosis, also caused by abnormal spine curvature, was connected to the scoliosis. But both maladies were possibly affected by another of Ione's afflictions, Ehlers-Danlos syndrome, a disorder that weakens connective tissue.

Despite her array of problems, Ione maintained her typically positive attitude and unflagging optimism. She looked for other solutions, including chiropractic, physical therapy, and even hung upside down with gravity boots. But these therapies provided only temporary relief.

In the late 1980s, Ione heard about orthopedic surgeon David Bradford, who was then at the University of Minnesota. Bradford is an expert in correcting spinal disorders and deformities with spinal fusion, a surgical procedure in which the patient's spinal disks are replaced with bone grafts. When the vertebrae and grafts grow together, or fuse, the result is essentially a solid column of bone.

Bradford recommended the surgery. But Ione decided that in light of the possible complications she could live with her bad back.

Over the next couple of years, however, the curvature in Ione's spine got worse. She faced the prospect of confinement to a wheelchair. This dim prognosis and the fact that Bradford had moved to UC San Francisco (so much closer to Ione's Carmel Valley home) finally convinced her to take action.

To accomplish Ione's spinal fusion, which took place last fall, Bradford performed two surgeries: one in which he worked on the front of the spine, and another in which he worked on the back. In the first surgery, Bradford reached the spinal column by removing a rib and moving aside internal organs. He scraped away the spinal disks, which are made of cartilage, and inserted bone chips—made from one of Ione's ribs, a tiny portion of her pelvis and some from the UCSF Bone Bank—in their place.

In the second surgery, Bradford made his incision down the middle of Ione's back. He placed two sets of steel rods—about the thickness of a pencil—along either side of Ione's spinal column, and attached them to the vertebrae with a variety of steel hooks, wires and screws. He also packed bone grafts around the back part of Ione's vertebrae.

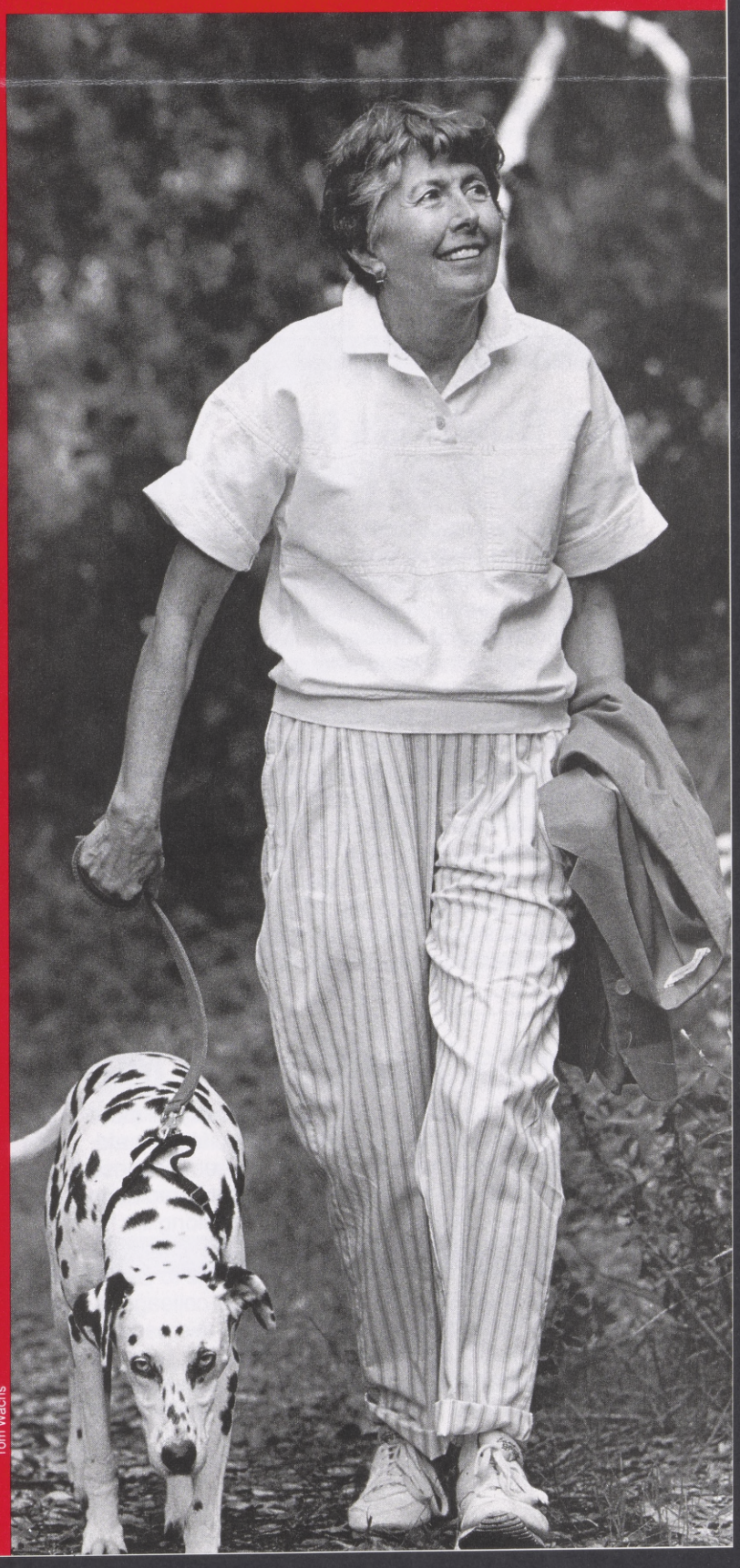
The surgeries were successful. However, the accompanying trauma to the body caused minor complications. Ione developed pneumonia, along with atrial (heart) fibrillations, both of which were controlled with medication. She spent 11 days in the intensive care unit at UCSF's Long Hospital, and nearly six weeks total in the hospital before going home.

Except for some continuing respiratory problems, Ione is recovering nicely. Her lower back pain is gone. And she doesn't have to support her left side with her hand or arm when she sits. "It's wonderful to swing my arms freely again when I walk," she says. She's also gained about an inch and a half in height. And now that her spine is considerably straighter than before, her kyphosis is much less pronounced

Ione is now celebrating her improved quality of life and the unexpected cosmetic boost. "My friends tell me I look 10 years younger," she says. "And my husband calls me his trophy wife."

—Marshall Krantz

(For more information about spinal disorders and other orthopedic surgical techniques, please call 476-2280.)



Tom Wachs

May/June 1992

To Our Neighbors

3-D Images Show Subtle Movements of Wrist

Fossil Detectives Use Antibodies to Probe Past

Taking Dental Care Out of the Clinic

University of California, San Francisco
513 Parnassus Avenue, San Francisco, CA 94143-0462

More News for You

Bad Business for Smoke-Free Restaurants?

You might think that ordinances ending smoking in restaurants is hurting business in those establishments. That's not so according to a study by the UCSF Institute for Health Policy Studies. If anything, "no smoking" ordinances are good for business by increasing slightly the fraction of total retail sales that go to restaurants, say the researchers.

The study counters claims by the tobacco industry that "no smoking" ordinances have reduced restaurant business by 30%. That claim apparently convinced the Beverly Hills City Council in 1987 to repeal the first 100% smoke-free restaurant ordinance in California only five months after it went into effect.

However, UCSF researchers, led by Stanton A. Glantz, a longtime foe of the tobacco industry, analyzed five years worth of data from the California State Board of Equalization on restaurant sales from several

California communities, which have had smoke-free ordinances for more than a year. The conclusion: 100% smoke-free restaurants are doing fine, and there is no shift in patronage to restaurants in communities with no such ordinances.

Potential Treatment for Most Deadly Brain Tumor

Glioblastoma is a deadly brain tumor that strikes more than 6,000 Americans every year, especially the elderly. While chemotherapy now saves lives for these patients, no mix of treatments — surgery, radiation therapy or chemotherapy — is likely to prolong life for more than a year.

Help may be on the way, however, thanks to UCSF chemist Stephen B. Kahl and his Australian colleagues. They have developed what they call a microscopic "smart weapon," which one day may be used to destroy these brain cancers and other fast-growing tumors in humans. The researchers have synthesized a new compound — called BOPP — that selectively infiltrates and destroys tumor cells in mice.

The team says that BOPP is 400 times more likely to invade the cells of these deadly brain tumors than normal mouse brain tissue.

Kahl believes that BOPP may be a good candidate for what is called "boron neutron capture therapy" (BNCT), an experimental cancer treatment combining chemotherapy and radiation treatments.

Ultimately, BNCT may prove useful for other fast-growing tumors where boron compounds concentrate, including lung and pancreatic cancers.

Peer Support Groups for Alzheimer's Patients

The UCSF Memory Clinic and Alzheimer's Center has begun peer support groups for patients, allowing them to turn to each other for understanding and information."There are many support groups for caregivers of Alzheimer's patients but very few groups for the patients," says licensed clinical social worker Robyn Yale, facilitator of the groups.

For further information contact the UCSF Alzheimer's Center at 476-7606.

Why Are Narcotics Given to Dying Patients?

Contrary to published reports that suggest that the use of pain killing drugs may be shortening the lives of terminal patients, a UCSF study has found that dying patients who have been withdrawn or withheld from life support systems are given narcotic pain killers and sedatives primarily to relieve pain and suffering. Although the amount of drugs given to the patients increased as much as four fold over what they received before being taken off life support, according to anesthesiologist John Luce, co-author of the study, there was no apparent hastening of death even with the increased dosages of pain killers and sedatives.

University of California, San Francisco

Cardi demo

David Powers

At Pr